

Name:

Victoria Steinmetz

Date:

## Student Exploration: Mouse Genetics (One Trait)

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** allele, DNA, dominant allele, gene, genotype, heredity, heterozygous, homozygous, hybrid, inheritance, phenotype, Punnett square, recessive allele, trait

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. The image shows a single litter of kittens. How are they similar to one another?

They all have spots, though they are different spots. They have the same type of fur and the size of their ears is about the same size.



2. How do they differ from one another?

They differ from each other because they have different color spots and size of spots. They have a few visible differences but they also have differences that cannot be seen only by the eyes. Like their personalities. All of the kittens have different kinds of personalities.

3. What do you think their parents looked like?

Their parents probably look similar to their kittens, they might have had spots and they are from the same cat family

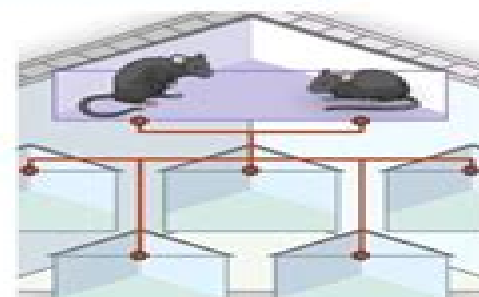
### Gizmo Warm-up

**Heredity** is the passage of genetic information from parents to offspring. The rules of **inheritance** were discovered in the 19<sup>th</sup> century by Gregor Mendel. With the *Mouse Genetics (One Trait)* Gizmo™, you will study how one **trait**, or feature, is inherited.

1. Drag two black mice into the **Parent 1** and **Parent 2** boxes. Click **Breed** to view the five offspring of these parents.

What do the offspring look like?

All the babies are with dark fur colors, no whites. Because black is a dominant color, it produces black.



The appearance of each mouse is also called its **phenotype**.

2. Click **Clear**, and drag two white mice into the parent boxes. Click **Breed** several times. What is the phenotype of the offspring now?

# Mouse Genetics One Trait Gizmo Answer Key

**Yan Bai**



**Mouse Genetics One Trait Gizmo Answer Key:**

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